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European Platform of Universities Engaged in Energy Research

Universities addressing 'Grand Challenges'

- EUA has joined the new **European Energy Research Alliance** (EERA) which has been launched in the framework of the European **Strategic Energy Technology Plan** (SET-Plan);
- EUA has decided to create a “**European Platform of Universities Engaged in Energy Research** (EPUE)” as a parallel mechanism for consultation and engagement by universities to that already established by the national research institutes;
- EUA sees EERA as an important pilot action in the development of the process of “joint programming” in which university-based research and training needs to contribute and be strengthened.



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European Energy Research Alliance Founding Partners

- CEA
- CIEMAT
- CRES
- ECN
- ENEA
- Helmholtz Association
- LNEG
- Riso – DTU
- UK – ERC
- VTT Technical Research Centre of Finland
- EUA
- EUROHORCS

European Platform of Universities Engaged in Energy Research (EPUE) - History

- February 2009 - Nominations received from National Rectors' Conferences for experts in the field of energy/energy technology
- 30th March 2009 - Meeting of nominated experts to discuss the potential establishment of a European Platform of Universities engaged in Energy/Energy Technology Research. At this meeting members of the EPUE Steering Group were selected.
- 3rd June 2009 – First meeting of the Steering Group
- 12th October 2009 – Second meeting of the Steering Group
- 16th November 2009 – Launch of the EUA European Platform of Universities Engaged in Energy Research Questionnaire
- 11th January 2010 – Third meeting of the Steering Group
- 31st January 2010 – Deadline for response to the Questionnaire

EPUE Steering Group Membership

Chair:
Professor Helena Nazare, Board Member, European University Association

Professor Dr. Vaclav Havlicek, Rector, Czech Technical University, CRC Vice-President for Economic and social affairs, Czech Republic

Professor Peter Lund, Helsinki University of Technology, Finland

Dr. Tom Markvart, Director, Solar Energy Laboratory, School of Engineering Sciences, University of Southampton, United Kingdom

Professor Dr. Michael Muhr, Vice – Rector, Graz University of Technology, Austria,

Professor Juan Pascual Martínez Pastor, Instituto de Ciencia de los Materiales, University of Valencia, Spain

Professor Dr. Ulrich Stimming, Professor of Physics and Chemistry, Technical University Munich, Germany

Professor Grégoire Winckelmans, Président Département de mécanique Université catholique de Louvain, Belgium

Dr. John Smith, Deputy Secretary General, European University Association

Dr. Lidia Borrell-Damian, Senior Programme Manager, European University Association

European Platform of Universities Engaged in Energy Research (EPUE)

Questionnaire designed for mapping of Energy-related Research and Training (sent to EUA Members in November 2009) in relation to:

- Fields of Knowledge (SET, BML, ESSH)
- Research Activities (Topics, Personnel, Partners)
- Doctoral Programmes (Topics, Personnel, Partners)
- Masters Programmes (Topics, Personnel, Partners)



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This questionnaire includes 7 Excel worksheets. You are now in the 3rd one_which you should fill in with data from research projects/activities.

Please scroll down to be able to read all the clarification points of the reference headings.

Please click on "4 - Doctorate" at the bottom of the Excel window to continue filling in the questionnaire.

Question 3 of 8 - Research activity in relation to energy-related topics

Please provide below data from the academic year 2007-2008.

Specific area of research in energy field (1)	Research personnel in your institution, FTE (2)			General Areas of Knowledge involved (3)			Academic Partners (4)	Non- Academic Partners (5)
	Professors, Faculty, Doctorate Holders	Doctoral Candidates	Others	SET	BML	ESSH		
Example: Photocatalysis	2	3	0	✓	✓		U. of Guilo, (research partner)	Solarpam, S.L., (research project partner and thesis supervision)
Example: Biofuels and Society	5	10	2	✓	✓	✓	None	Enerbo, NGO (doctoral placements)

N.B.: Add as many rows as necessary

(1). Specific area of research in energy-related topics: the name of the topic area as it is known in your institution.

Use the level of aggregation that you regard as most appropriate (e.g. name of research area, laboratory, department, faculty).

The questionnaire could have asked about participation in strategic alliances and networks.

(2). Research personnel – Full Time Equivalent (FTE): indicate the approximate number of persons (FTE) in your institution who work in energy-related research in each of the indicated areas. As much as possible, please try to aggregate persons according to three main categories:

- a. Professors, Faculty, Doctorate Holders
- b. Doctoral Candidates
- c. Others (Researchers with No doctorate degree, Technical Assistants, etc.)

(3). General areas of knowledge involved: mark one or more cells as appropriate, according to the nature of your research in three broad areas of knowledge:

- a. SET: Science, Engineering and Technology
- b. BML: Biosciences, Medical/Life Sciences
- c. ESSH: Economics, Social Sciences and Humanities

(4). Academic Partners: Higher Education (HE) institutions / university research centers: Indicate the name of the partner and its role/s (e.g. research project partner, joint thesis supervision, placements, access to and use of European Research Infrastructure).

(5). Non-Academic Partners: Industry/Enterprise partners, non-university research institution partners, governments (national, regional), its role/s Research and Technology Organisations (RTOs) etc: Indicate the name and type of the partner and its role/s (e.g. research project partner, joint thesis supervision, industry placements, access to and use of European Research Infrastructure).

If you have additional data or data corresponding to other academic years that you are able to make available to us, please provide this.

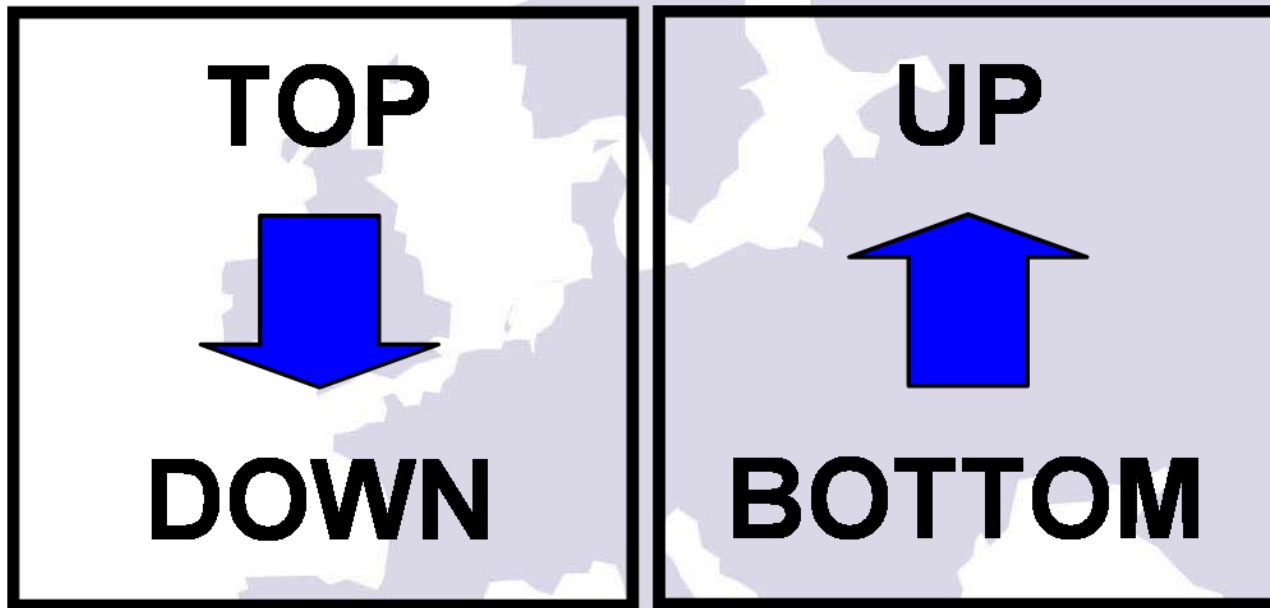
Main Tasks of EPUE (I)

- 1. To provide a strong “one” voice for universities in EU energy research, particularly in the SET-Plan context;
- 2. To ensure that characteristic university attributes such as fundamental research and training are properly included in the upcoming EU energy activities;

Main Tasks of EPUE (II)

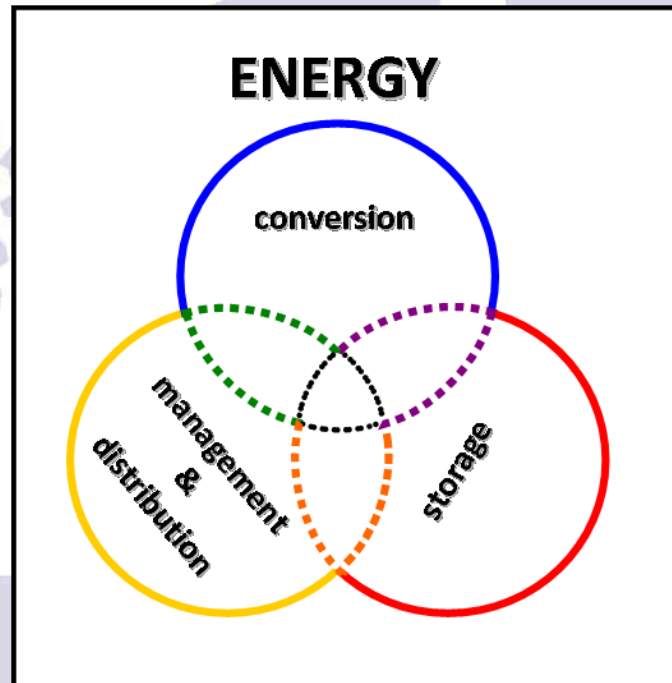
- 3. To facilitate competitive European university groupings to participate in the realization of the SET-Plan, in particular through the EERA and the Joint-Programming activities;
- 4. To bind more strongly the various disciplines ranging from natural sciences, engineering to social sciences and arts/humanities to best fulfill the needs of the society in energy research;
- 5. To speak for long-term thinking in European research agendas and initiatives, with due consideration given to a balance between top-down and bottom-up research strategies.

Elements in Energy Research at Universities (I)



Element 1: The organization of the research process whether it is *top* → *down* or *bottom* → *up*; this element is especially important to serve the special function of a university in contrast to research institutes.

Elements in Energy Research at Universities (II)



Element 2: The main areas of energy research “Conversion, Management-Distribution and Storage” of energy which constitutes the “clover leaf”.

Elements in Energy Research at Universities (III)

**Society
Systems
Components
Fundamentals**

Element 3: “Society, Systems, Components and Fundamentals”. This reflects the necessity that the technical macro scale has to be complemented by societal aspects, on the one hand, and microscopic understanding, on the other hand.

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- The basic idea of EPUE is to work openly and transparently to promote and provide an added value to university-based research and training capacity in the energy field.
 - EPUE operates under the auspices of the EUA guided by a Steering Group and works as a part of EERA.
 - Established formally in 2009, the EPUE will expand its activities and seeks to be fully operational during 2010.
 - European universities are welcomed to join the EPUE and to actively work within this platform

European Platform of Universities Engaged in Energy Research (EPUE) Launch

February 2010 launch of EPUE web-pages on the EUA website, including Mission Statement and list of Universities expressing interest and responses to the questionnaire



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Vielen Dank für Ihre
Aufmerksamkeit!